

Storytelling your thesis

Megan Brewer, PhD GR Development Advisor (STEMM)

Jen Rowland, PhD Senior Lecturer, Researcher Development and Training FMHHS Faculty Director - Master of Research

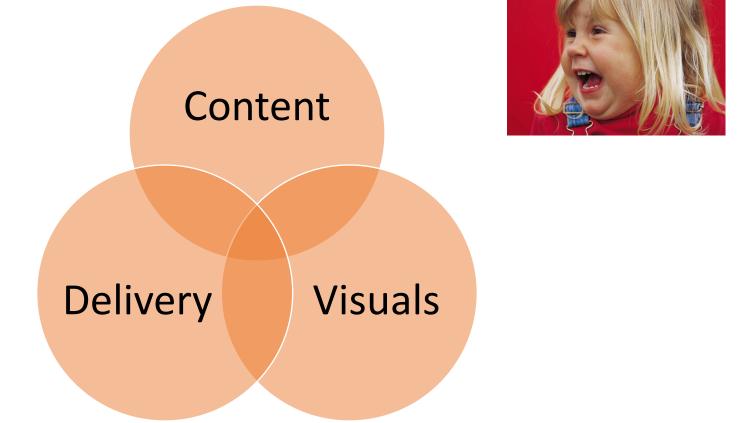
"Science is not finished until it's communicated" Sir Mark Walport (former UK Government Chief Scientific Advisor)



Why enter

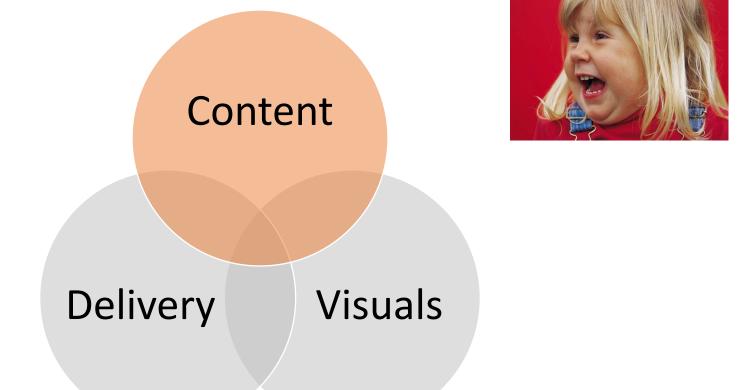
- Develop skills:
 - effective communication
 - information and digital literacy
 - visual story telling
- Helps you see the bigger picture of your thesis
- Distil the essence of your research into a succinct and engaging sound bite

What can make/break a presentation?





What can make/break a presentation?



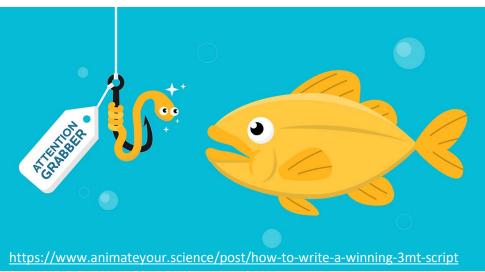




Engaging your audience

Present your research problem in an accessible & *immediately understandable* way

- Start specific & concrete
- Highlight a surprising fact



Some suggestions for the hook

Everyday phenomena: *Have you ever wondered why ...*

A hypothetical scenario: *Imagine if you...*

Direct advice: If you're thinking of X, (don't) do Y!

Conduct an informal survey: Hands up if you...

Shocking statistics/facts: *Did you know that...?*

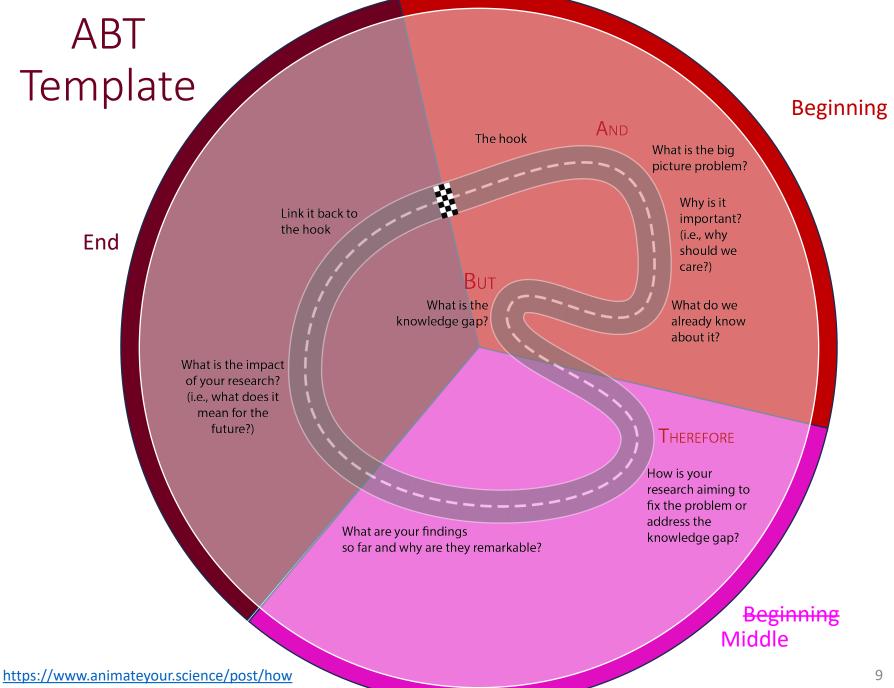
A common misconception: *I always assumed ... BUT ...*

A paradox: Why is it that ...

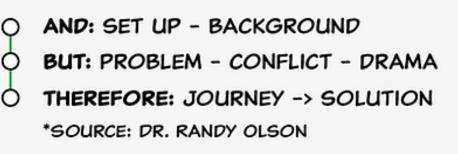
Take 2 minutes now to think AFRESH about your research. Finish one of these suggestions

Tell them a story



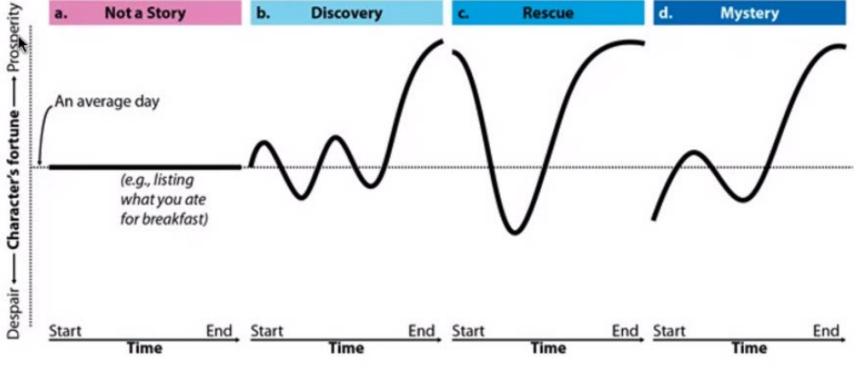


-to-write-a-winning-3mt-script



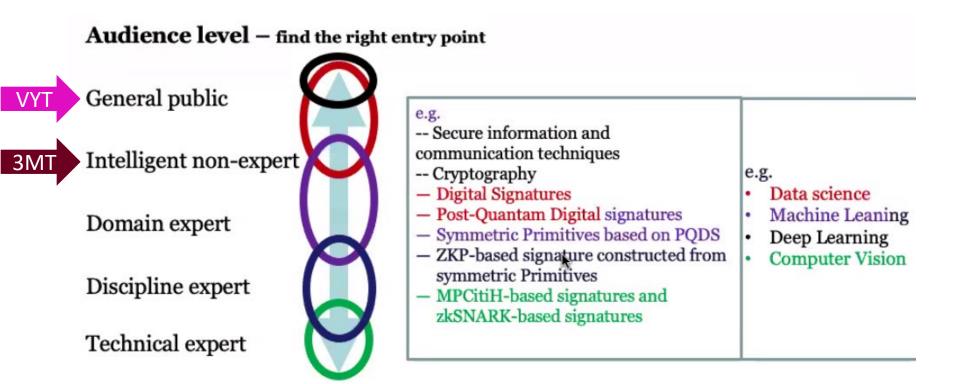
Play with different 'genres'

https://www.animateyour.science/post/tell-them-a-storyhow-to-avoid-the-standard-boring-presentation



Nicola Rivers: Everything not saved will be lost

Use simple language



Nicola Rivers: Everything not saved will be lost

Use simple language

My research	My video
Murray River Rainbowfish and Western Rainbowfish	"fish"
Cryopreservation of testis and ovarian tissue	"freeze " "reproductive tissue"
In vivo (via transplant) and <i>in vitro</i> (via cell culture) production of sperm and oocytes	Visual of cell division → making new fish

The Title

• Doesn't have to be your thesis title

Eg "Structures and features in complex visual stimuli: assisting identification in forensics" → "Suspects, Science and CSI"

• Informative but accessible

"The paradox of listening to sad music"

• Colloquialisms and questions permissible

"Do children with autism have an inner voice?"

Can be technical

"The Role of Epithelial-Mesenchymal Transition (EMT) in the pathogenesis of Obliterative Bronchiolitis (OB) in Lung Transplant Recipients"

Title examples

Thesis: The area of Pylons Four, Five and Six at Karnak Temple: assessing the architecture, sequence of construction and ensuing historical implications

3MT: Reconstructing the Experience of the Ancient Egyptian Karnak Temple

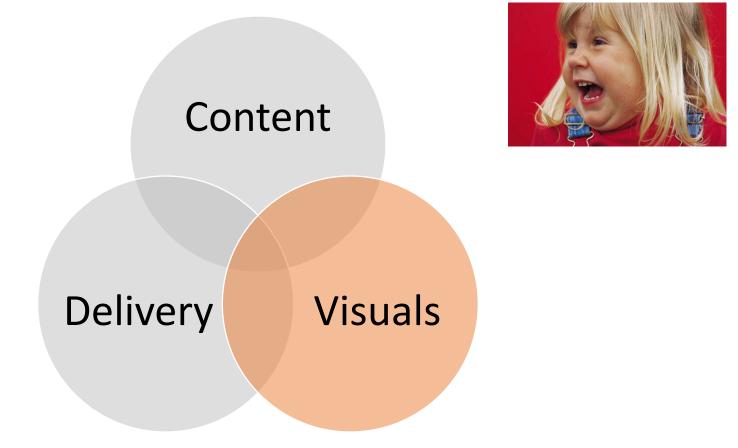
Gillian Smith (Winner MQ Final, 2019)

Thesis: Decoding hidden language: towards a reliable neural assessment of language comprehension in minimally-verbal autistic children

3MT: Can the brain speak when the mouth cant?

Selene Pitt (Winner MQ Final, 2018)

What can make/break a presentation?

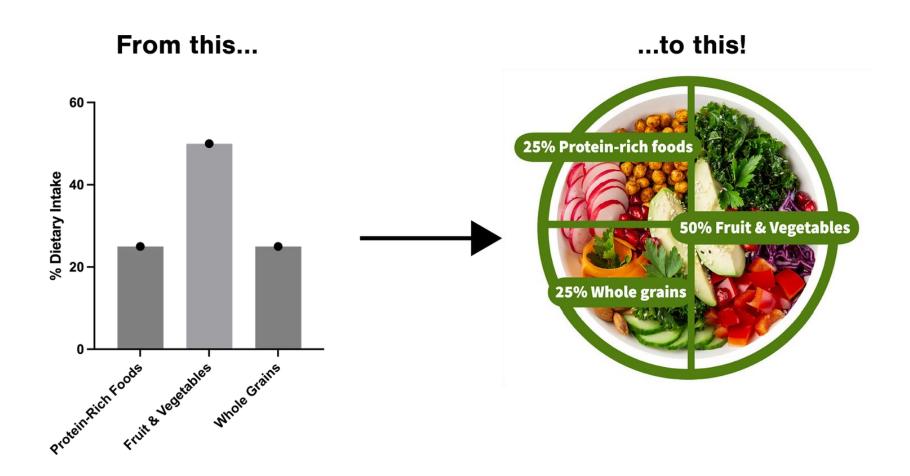




Do not info dump

FLAXSEED'S PARADOXICAL ROLE CONCLUSION: Flaxseed (via the action of Methionine cycle metabolites 1ADP) induces a strong transsulfuration SAM-SAH intervention of the later. IN INCREASING THE LIFESPAN AND perturbation that reverses homocysteine flux, \$ 1.5 REPRODUCTIVE CAPACITY OF causing increased consumption of one-carbon 1.0 donor molecules, increased SAM synthesis and 6.5 WHITE LEGHORN LAYING HENS increased methylation capacity in the hen. The William Chris Weston (PhD Candidate) associated outcomes are improved lifespan and/or increased daily egg laying. Flaxseed is a Dept: Molecular, Cellular & Systemic Physiology new form of nutritional biotechnology. Mentor: Dr. Dale B. Hales INCREASED SAM Methionine Cycle SYNTHESIS Folate Cycle-derived one-carbon donors SAM Phospholipid-derived Dimethylglycine (DMG) One-carbon donors from One-carbon donors in ELEVATED one-carbon donors phospholipid metabolism the Folate Cycle MAT SN MOONE FLUX Choline Betaine Phosphatidylcholine DMG Methionine Serine DMG THF Glycine 8 1.0 Choline ELEVATED Sarcosine 3 ... MS-812 BHM FLUX +THE S-CH,THF Serine:Glycin Betaine Homocysteine CBS, 86, DECREASED BACKGROUND AND METHODS: Acia Hydrolysis FLUX 1ADP+ Cystathionine Linatine CSE, B6Y DECREASED Survival and egg laying performance FLUX Flaxseed Survival 1-amino D-proline (1ADP) Pyridoxal 5' phosphate (PLP) Daily eggs Cysteine Total Starting Servicing Diet per hen (Flaxseed's anti-86 toxin) (vitamin 86) survival. hens heps 00 140 legg (day-han) White Leghorn laying hens (n = ~168 hens per group) Transsulfuration Vitamin B6 metabolites 0.384*+/-0.005 Defatted Flax 71.4% 161 115 were supplemented with different dietary 4-Pyridexic Acid Cystathionine Cystine (di-cysteine) 0.365" +/- 0.004 67.6% 182 123 Control 1.5 20 constituents (e.g. defatted flaxseed or whole 0.403 +/- 0.005 Whole Flax 65.5% 161 107 息 15 0.394** +/- 0.005 flaxseed) for 325 days. Blood plasma metabolites Fish Oil 65.5% 165 108 10 0.359" +1- 0.005 Flax Oil 64.0% 161 103 were analyzed via liquid chromatography tandem 8 0.5 0.355" +/- 0.004 Cors Oil 61.7% 175 108 mass spectrometry (LC-MS/MS), in order to evaluate 0.376 +/- 0.005 Average 66.1% 168 111 one-carbon metabolism in hens. Daily survival and itatistical values determined by one-way ANOVA and Duncan's multiple range post-test (p+0.05), +/- SEM egg laying were also monitored by diet group.

Amplify and Simplify



Keep it simple

"I am Lucy and I have so much to say.

Amazingly I was rescued from silence"

- Lucy, aged 8 years

<u>Selene Petit, Faculty of Human Sciences</u> (MQ Winner and Asia-Pacific runner-up, 2018)

Make it relevant to the story



Joined September 2017

O Born on November 21, 1966



NOT A WOLF COFFEE LOVER. GRAPHIC DESIGNER DEFINITELY NOT A WOLF PRETENDING TO BE A MAN. @ITSDANSHEEHAM

> **9 NOT THE WOODS** & etsy.com/shop/NOTAWOLF

> > 1 Message



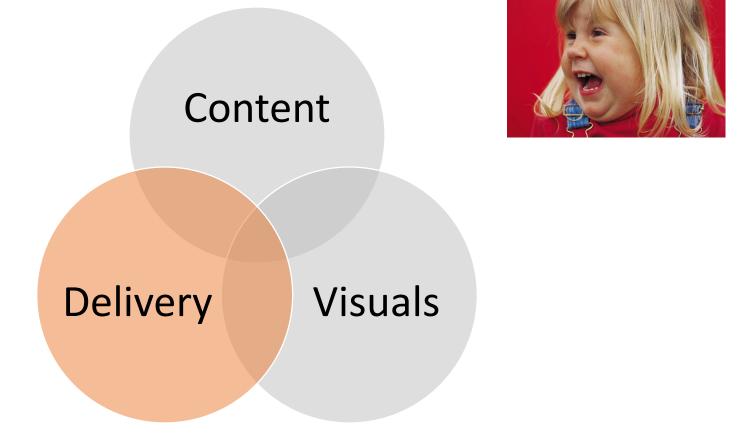
Grandma @Grandma09441127 Little red riding hood's grandma III Joined July 2018

Trust Evaluation on Twitter

Doined August 2013 Tweet to

Peiyao Li, Faculty of Science and Engineering (People's Choice award for Department and Faculty Heats, and MQ Final,²²2018)

What can make/break a presentation?

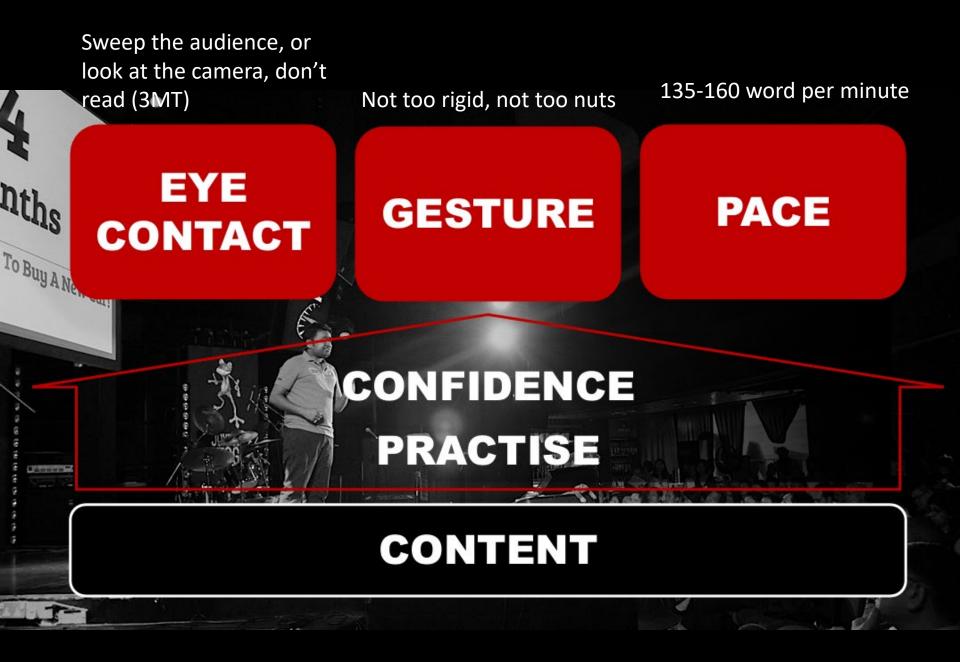




Use voice modulation to engage the audience

Indicates	Pitch	Tone	Volume	Pace
	mood	personality	confidence	excitement
	attitude	mood	energy	nervousness
	intention	attitude	interest	boredom
	High	Loud	Loud	Fast
	Excitement	Enthusiasm	Passion	Excitement
	Surprise	Urgency	Importance	Urgency
	Curiosity	Anger	Emphasis	Enthusiasm
	Neutrality	Confidence	Balance	Balance
	Balance	Clarity	Clarity	Clarity
	Clarity	Professionalism	Respect	Professionalism
	Authority	Intimacy	Intimacy	Importance
	Seriousness	Sincerity	Secrecy	Seriousness
	Calmness	Gentleness	Suspense	Calmness
	Low	Soft	Soft	Slow

https://www.linkedin.com/advice/0/what-some-voice-modulation-exercises-techniques



3MT or VYT feedback and practice

Book a personalised feedback or discussion session on your 3MT or VYT presentation with a Graduate Research Development Advisor:



Dr Francesca Mataraga (HASS) <u>francesca.mataraga@mq.edu.au</u>



Dr Frank Song (HASS) frank.song@mq.edu.au



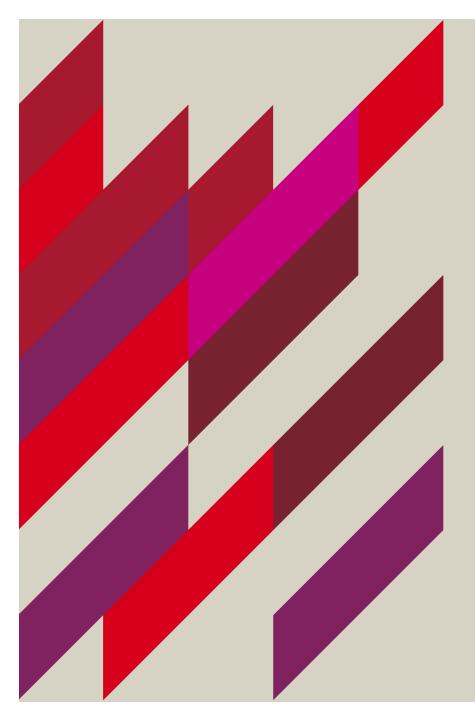
Dr Chris Bilsland (Professional Development) <u>christine.bilsland@mq.edu.au</u>



Dr Megan Brewer (STEMM) megan.brewer@mq.edu.au Aw

Away 29 June – 21 July

GRD Team Email gr.development@mq.edu.au





Examples



Ratanapat Suchat

Brand Nostalgia: The Emotional Responses of Thai Students Studying in Australia to Thai Condiment Packaging

PhD, Year 2 School of Design, Swinburne University of Technology



0000-0002-5389-0049

©Ratanapat Suchat 2021







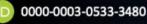
presented by



Nicola Rivers

"Everything not saved will be lost"

PhD, Final Year Department of Obstetrics & Gynaecology



@NicRivers_

© Nicola Rivers 2020







THE UNIVERSITY OF MELBOURNE Winner of the 2021 Macquarie Competition: Hamid Yahyaei from the Department of Applied Finance (MQBS): <u>Where does money come from?</u>



CREATE CHANGE



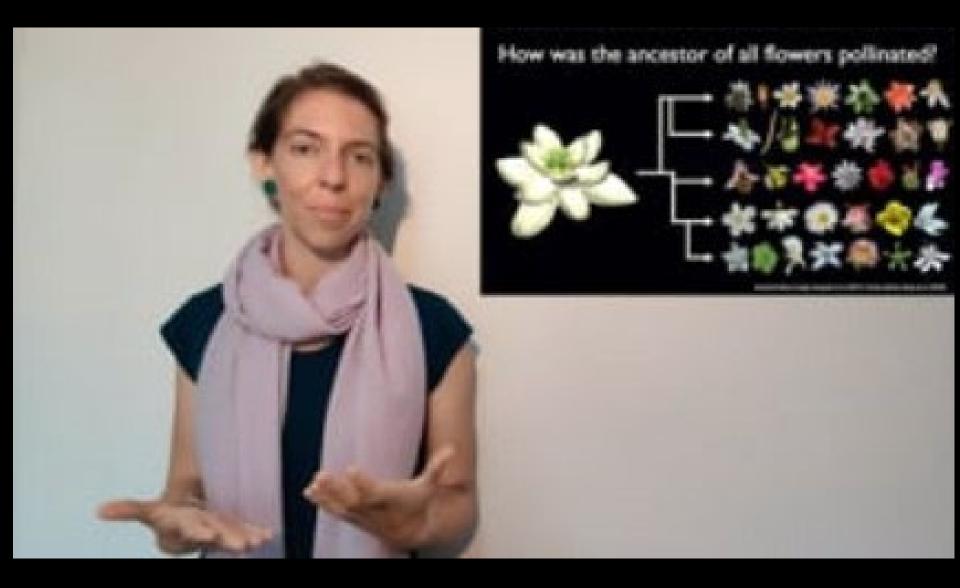
Hamid Yahyaei

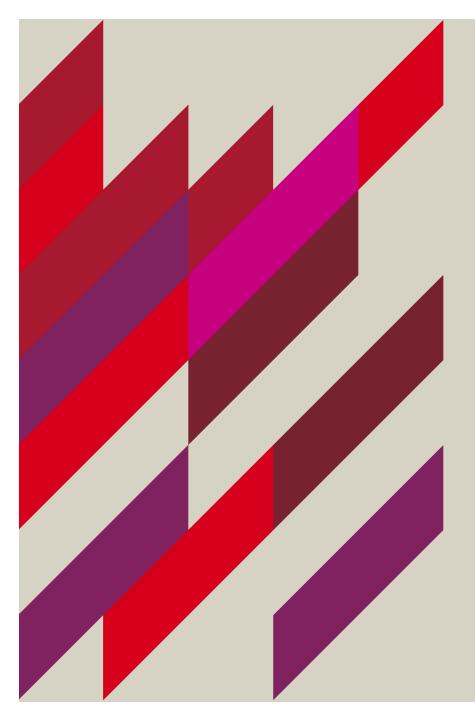
Department of Applied Finance Macquarie Business School Macquarie University

Where Does Money Come From?



Winner of the 2022 Macquarie Competition: **Ruby Stephens** from the School of Natural Sciences (FSE): <u>How was the ancestor of all flowers pollinated?</u>







Questions?

Megan Brewer, PhD Graduate Research Development Advisor (STEMM) Graduate Research Academy <u>megan.brewer@mq.edu.au</u>